

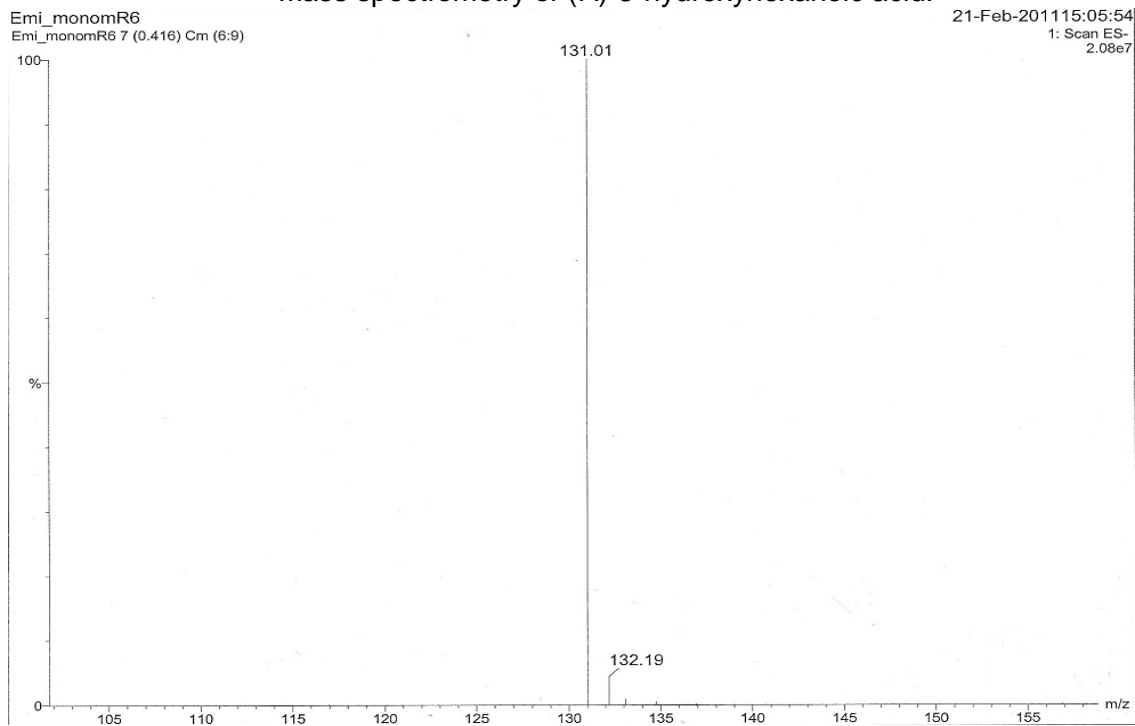
Supplementary data for article:

Szwej, E.; Devocelle, M.; Kenny, S.; Guzik, M.; O'Connor, S.; Nikodinović-Runić, J.; Radivojevic, J.; Maslak, V.; Byrne, A. T.; Gallagher, W. M.; et al. The Chain Length of Biologically Produced (R)-3-Hydroxyalkanoic Acid Affects Biological Activity and Structure of Anti-Cancer Peptides. *Journal of Biotechnology* **2015**, *204*, 7–12.

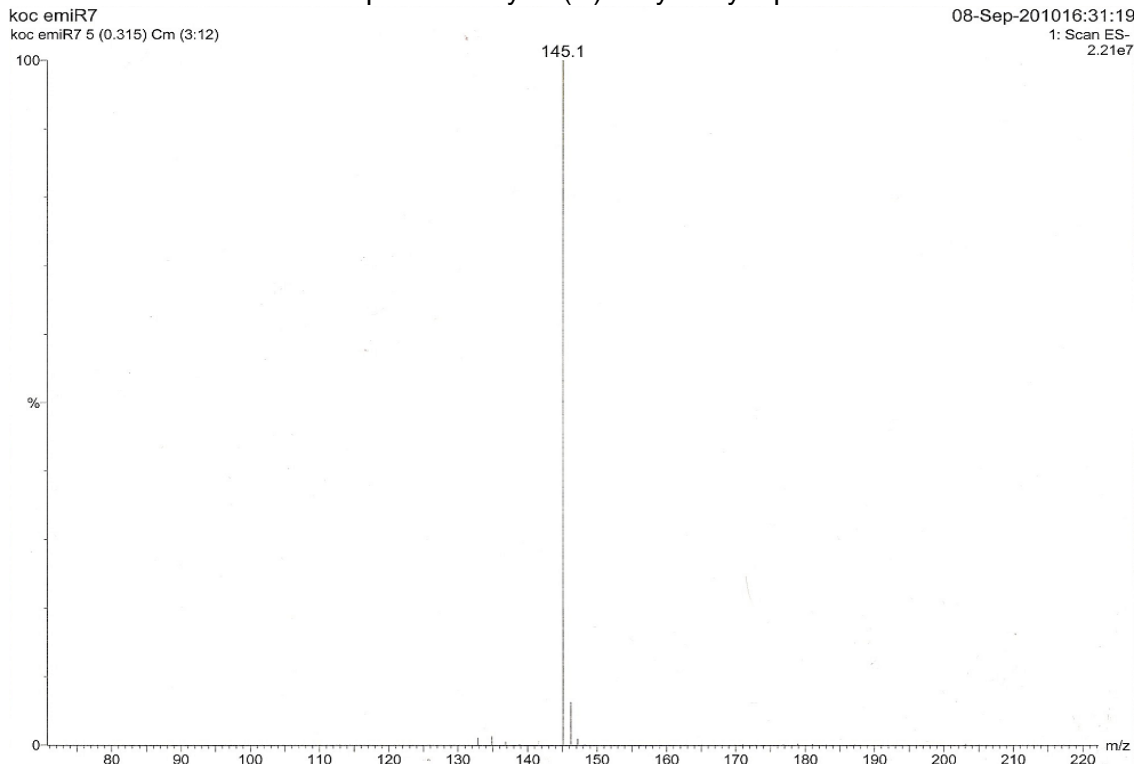
<https://doi.org/10.1016/j.jbiotec.2015.02.036>

**FIG. S1** Structural (MS and NMR) analysis of the 3-(*R*)-hydroxyalkanoic acids obtained from the PHA.

Mass spectrometry of (*R*)-3-hydroxyhexanoic acid:



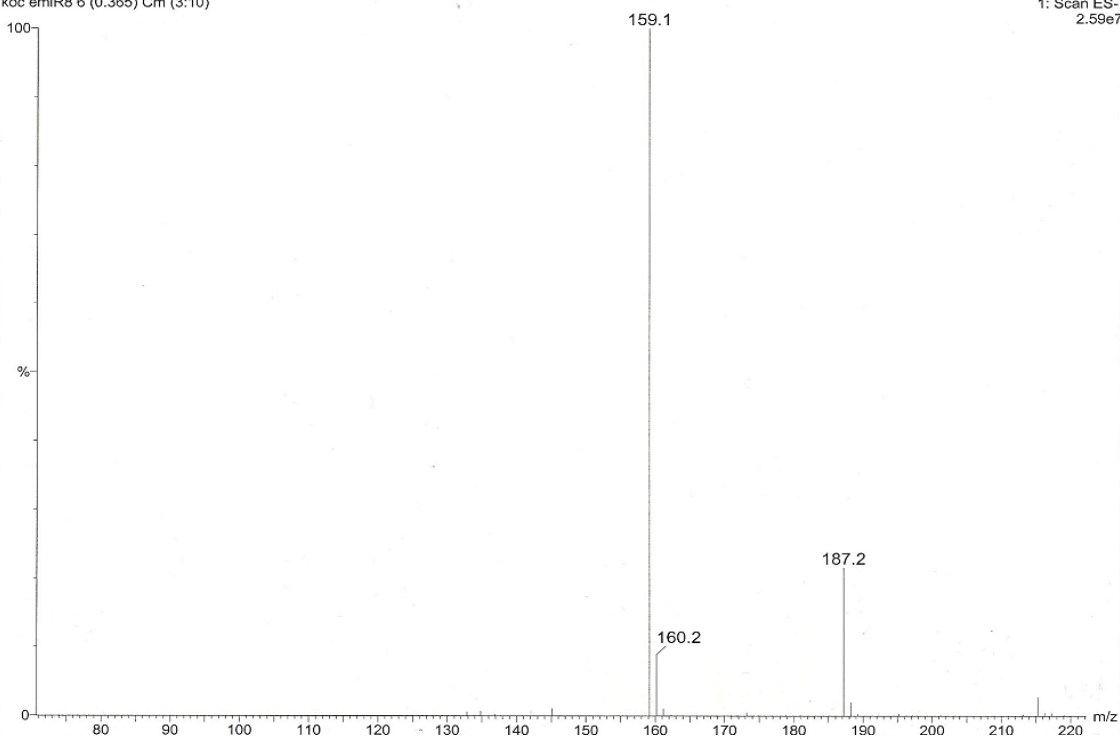
Mass spectrometry of (*R*)-3-hydroxyheptanoic acid:



### Mass spectrometry of (*R*)-3-hydroxyoctanoic acid:

koc emiR8  
koc emiR8 6 (0.365) Cm (3:10)

08-Sep-2010 16:34:00  
1: Scan ES-  
2.59e7



### Mass spectrometry of (*R*)-3-hydroxynonanoic acid:

koc emiR9  
koc emiR9 5 (0.315) Cm (3:13)

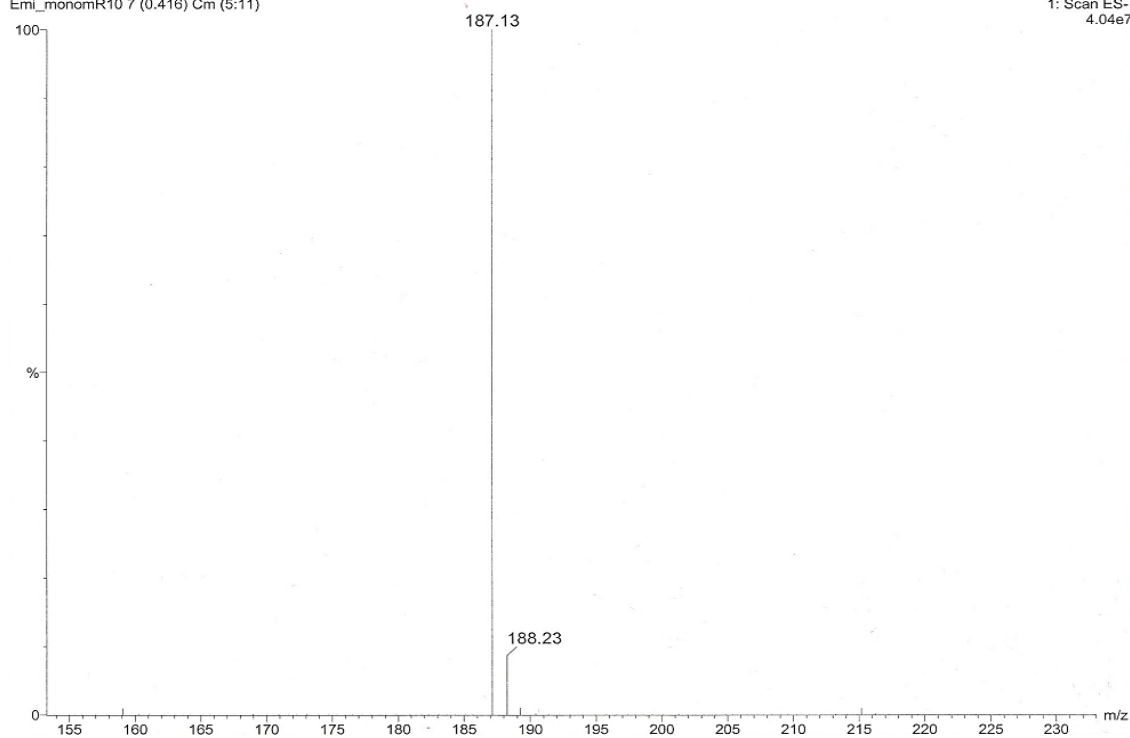
08-Sep-2010 16:36:25  
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3.83e7



### Mass spectrometry of (*R*)-3-hydroxydecanoic acid:

Emi\_monomR10  
Emi\_monomR10 7 (0.416) Cm (5:11)

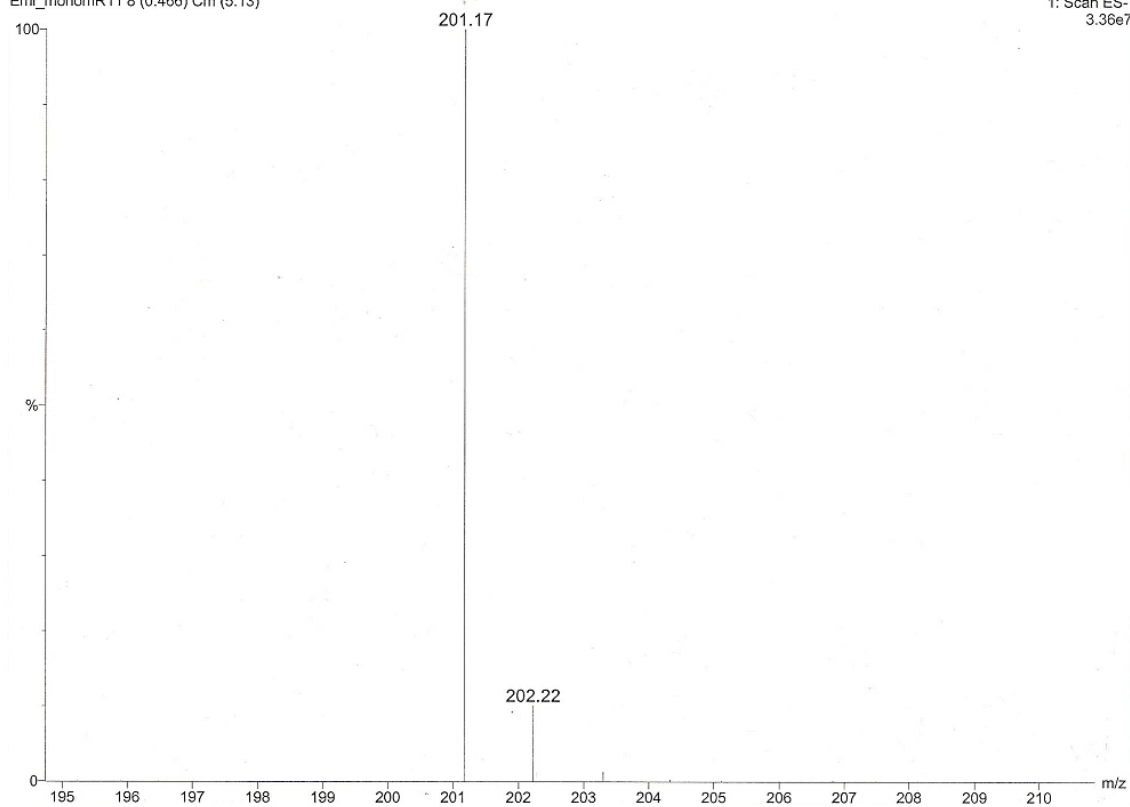
21-Feb-2011 15:08:33  
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4.04e7



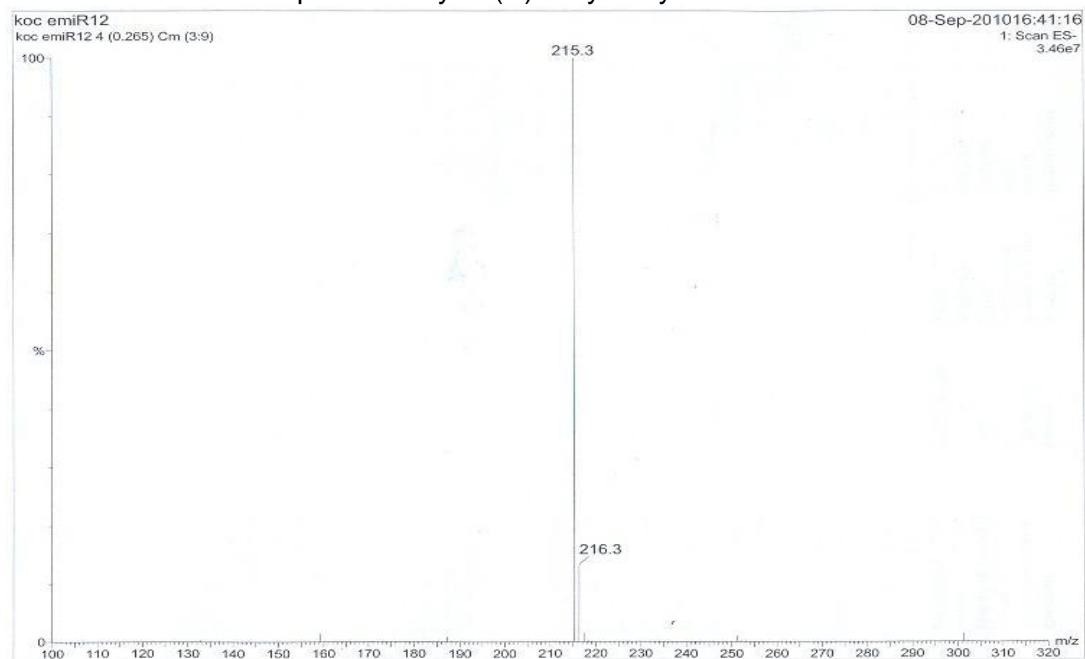
### Mass spectrometry of (*R*)-3-hydroxyundecanoic acid:

Emi\_monomR11  
Emi\_monomR11 8 (0.466) Cm (5:13)

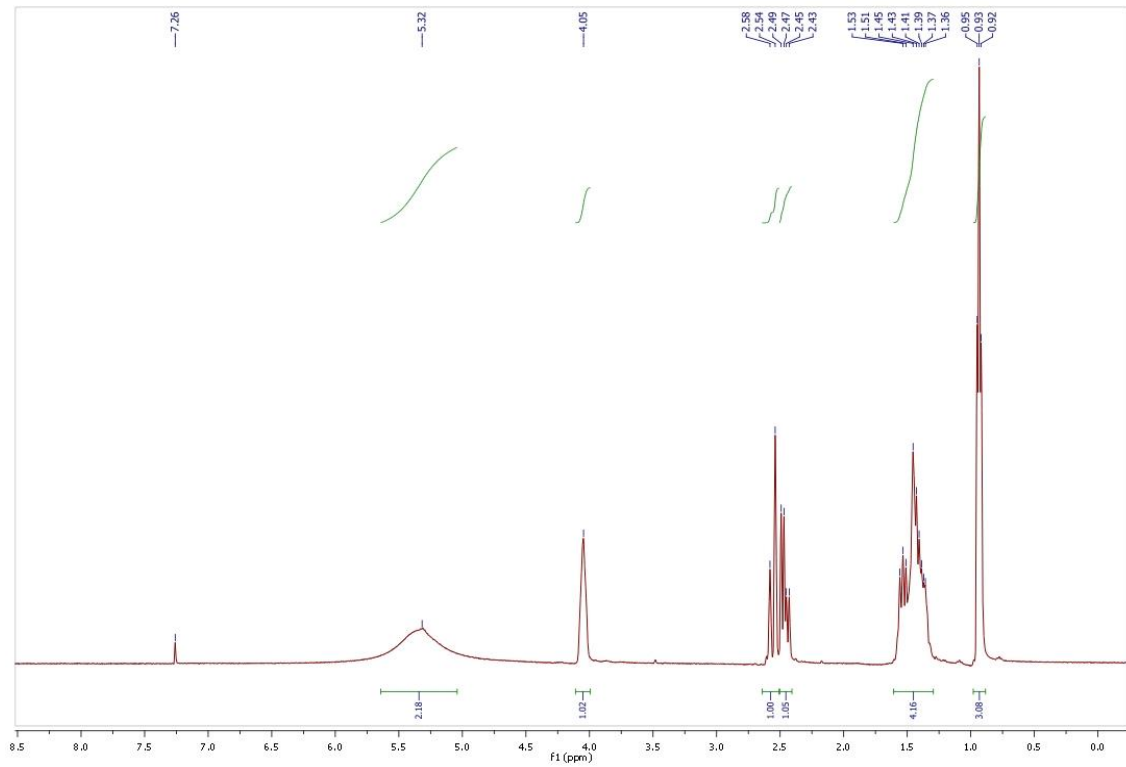
21-Feb-2011 15:11:01  
1: Scan ES-  
3.36e7



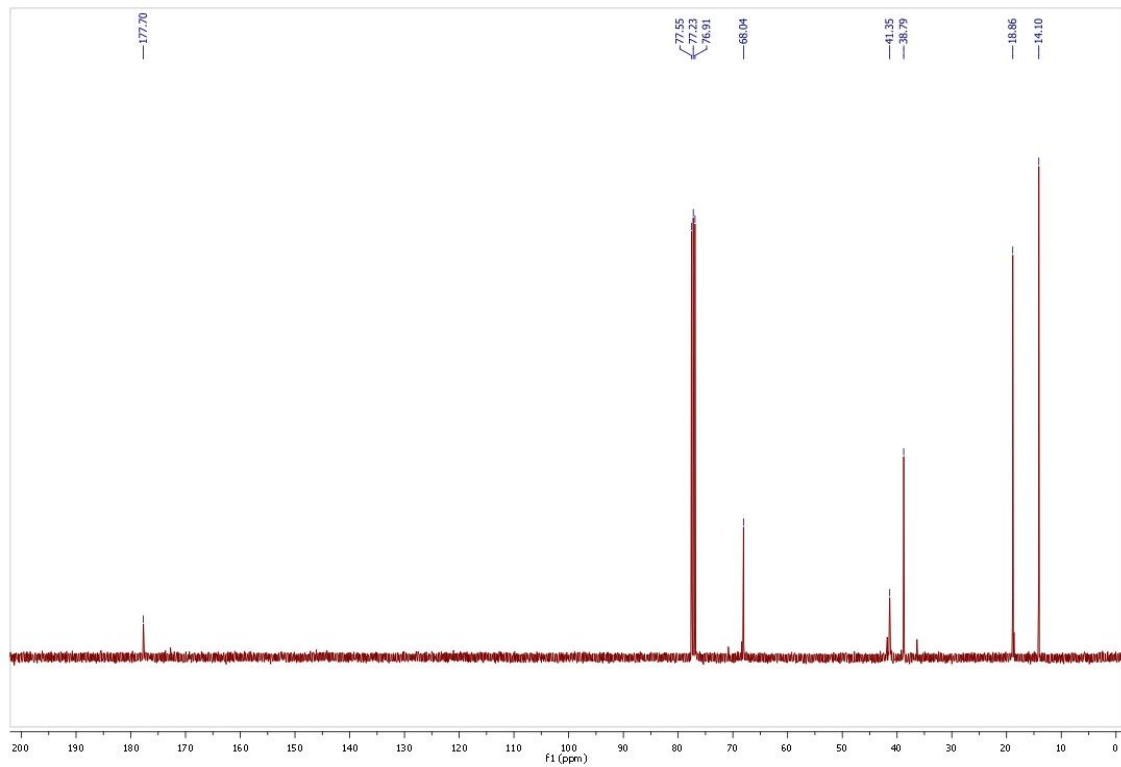
Mass spectrometry of (*R*)-3-hydroxydodecanoic acid:



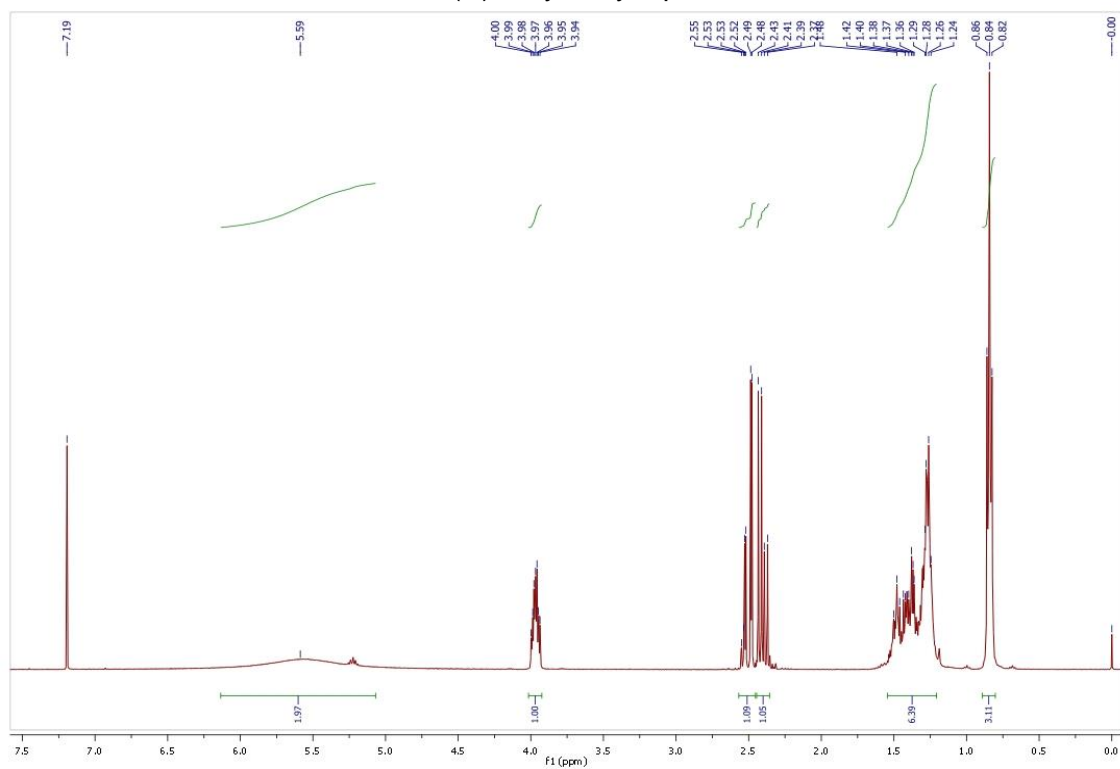
$^1\text{H}$  NMR of (*R*)-3-hydroxyhexanoic acid:



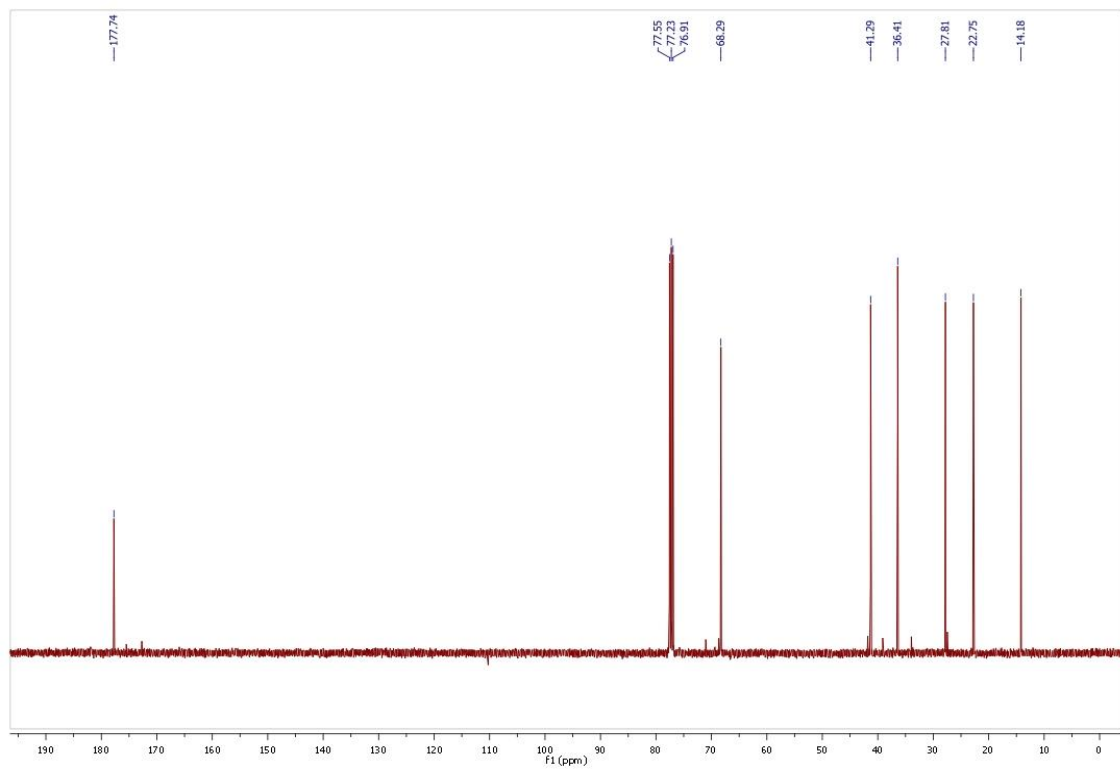
$^{13}\text{C}$  NMR of (*R*)-3-hydroxyhexanoic acid:



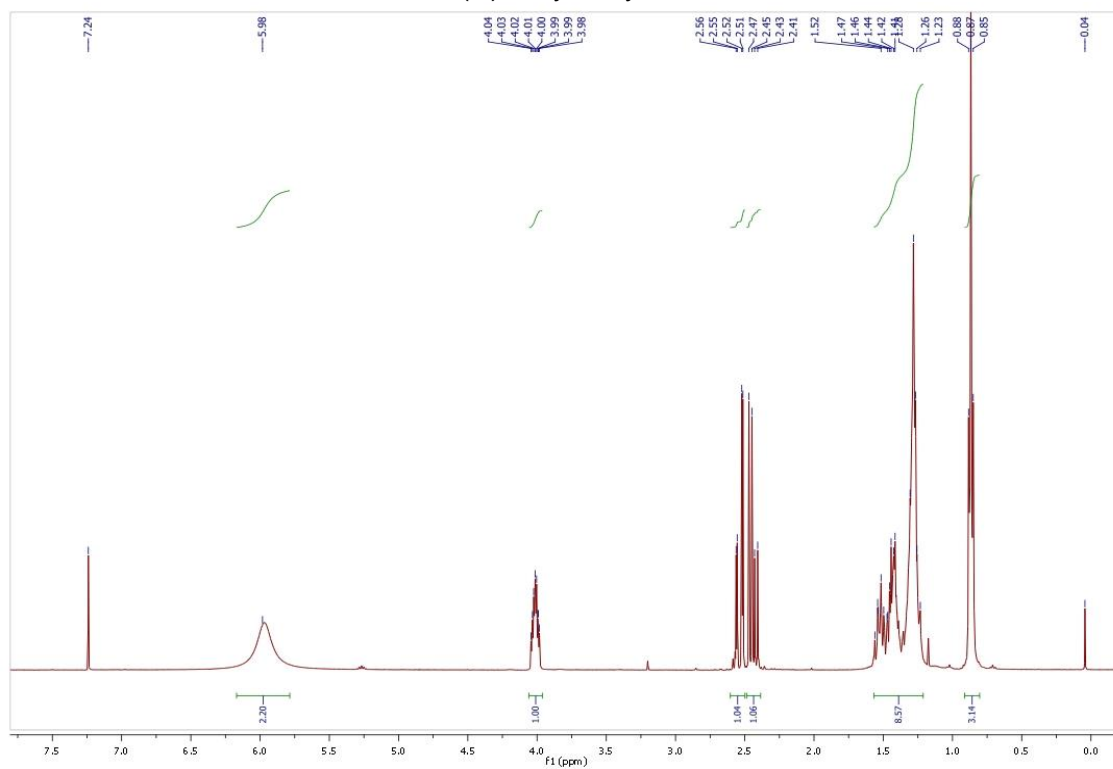
<sup>1</sup>H NMR of (*R*)-3-hydroxyheptanoic acid:



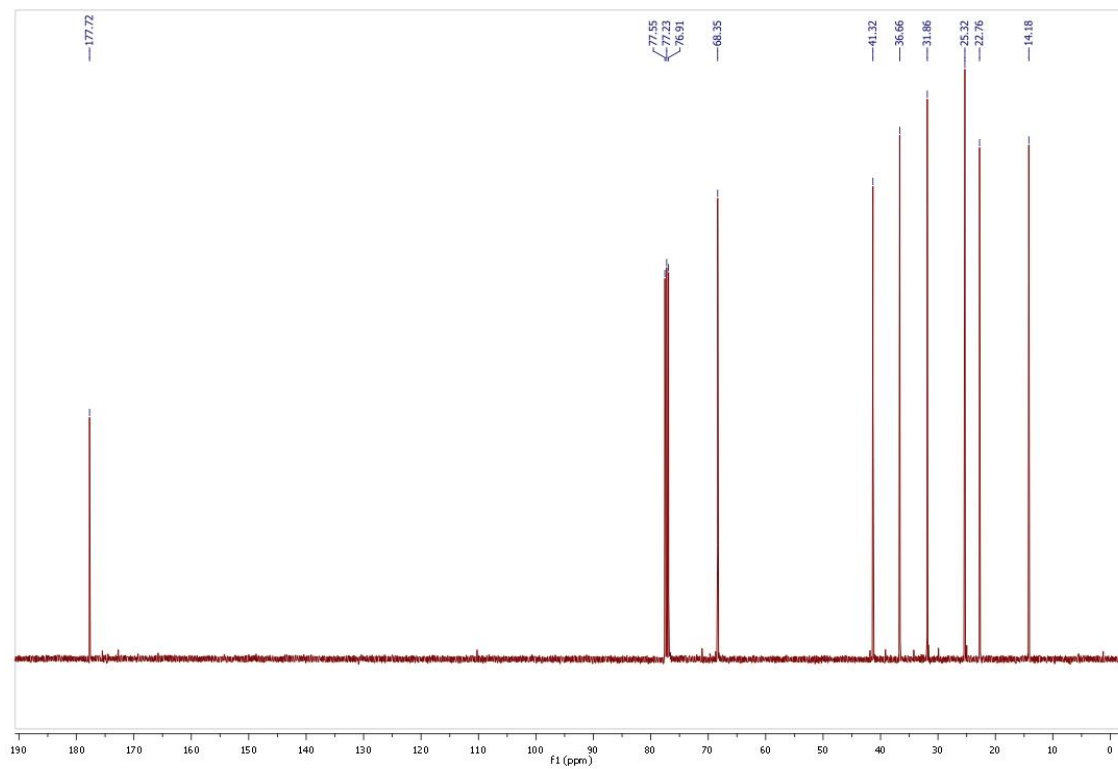
<sup>13</sup>C NMR of (*R*)-3-hydroxyheptanoic acid:



<sup>1</sup>H NMR of (*R*)-3-hydroxyoctanoic acid:

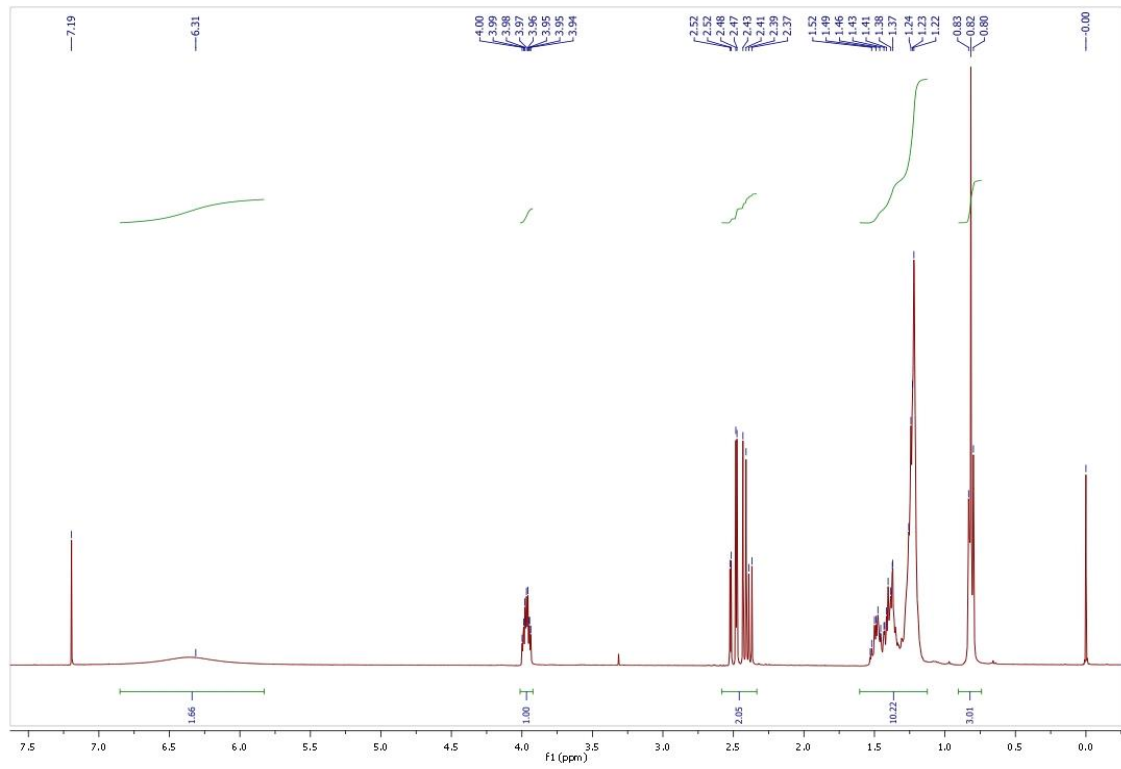


<sup>13</sup>C NMR of (*R*)-3-hydroxyoctanoic acid:

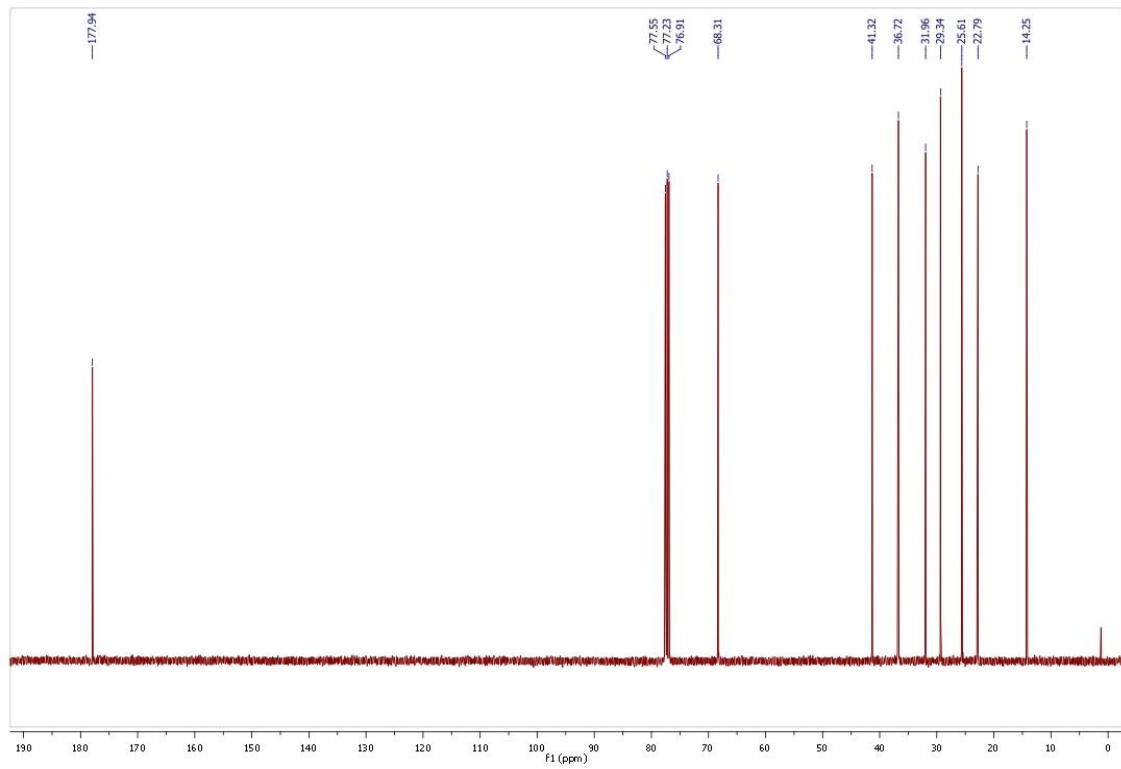




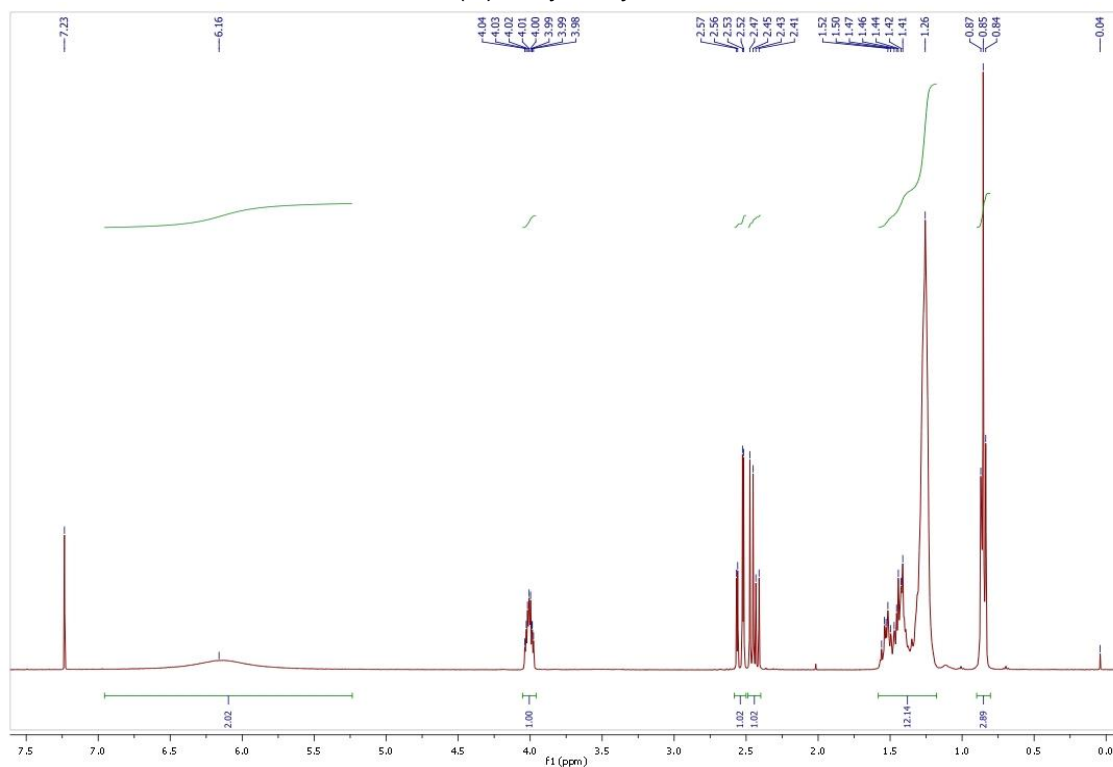
<sup>1</sup>H NMR of (*R*)-3-hydroxynonanoic acid:



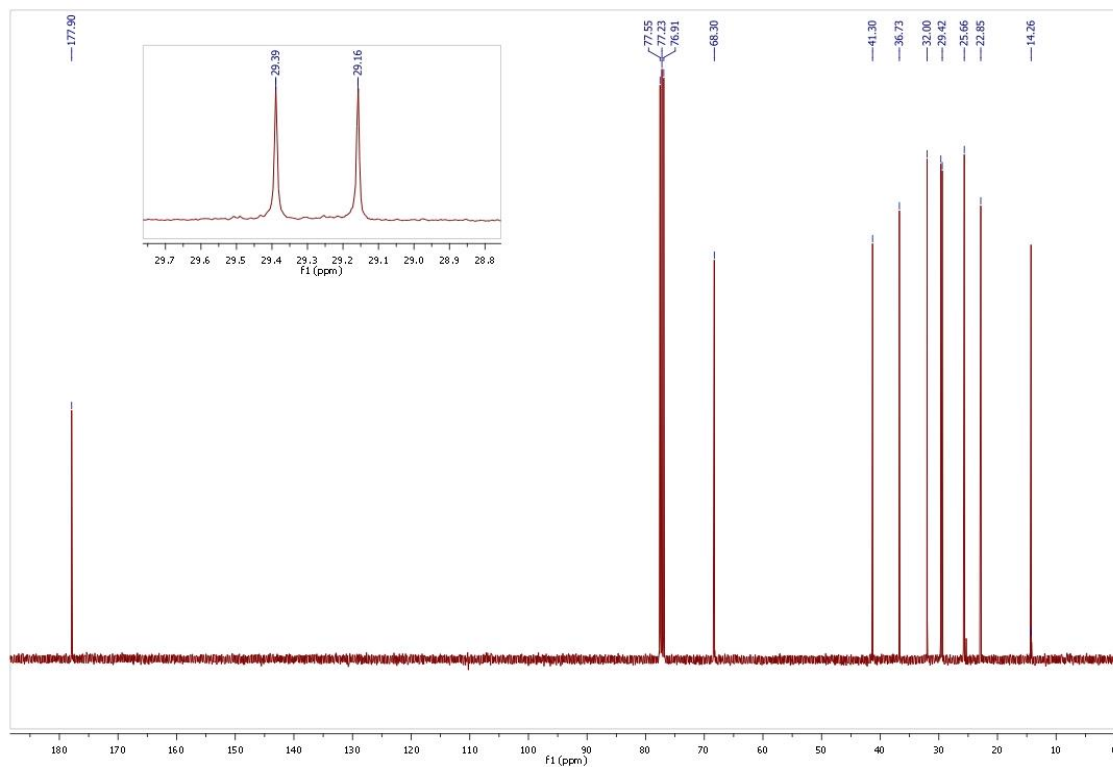
<sup>13</sup>C NMR of (*R*)-3-hydroxynonanoic acid:



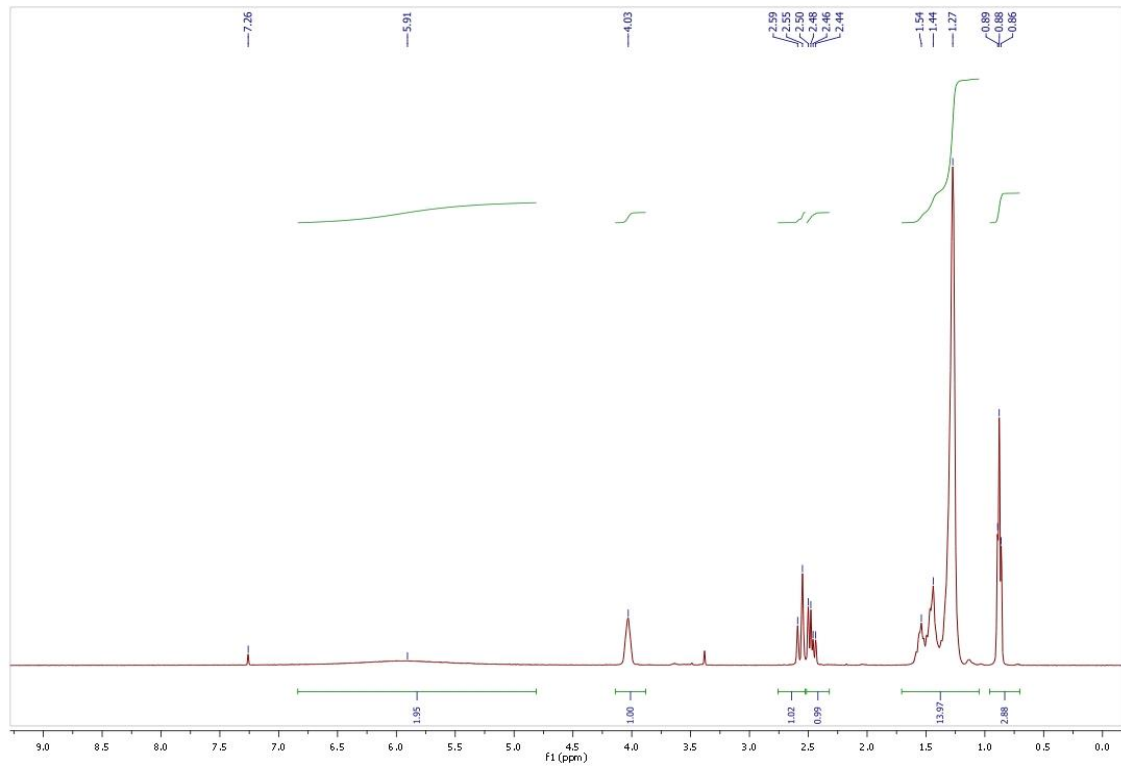
<sup>1</sup>H NMR of (*R*)-3-hydroxydecanoic acid:



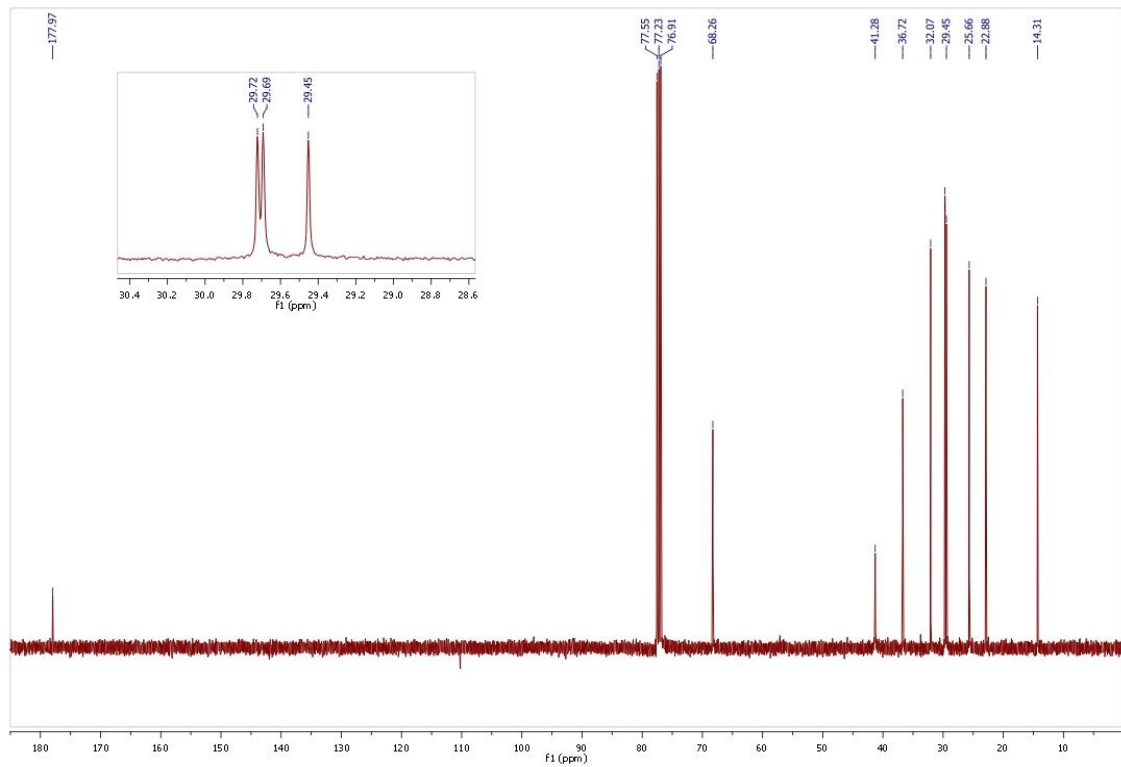
<sup>13</sup>C NMR of (*R*)-3-hydroxydecanoic acid:



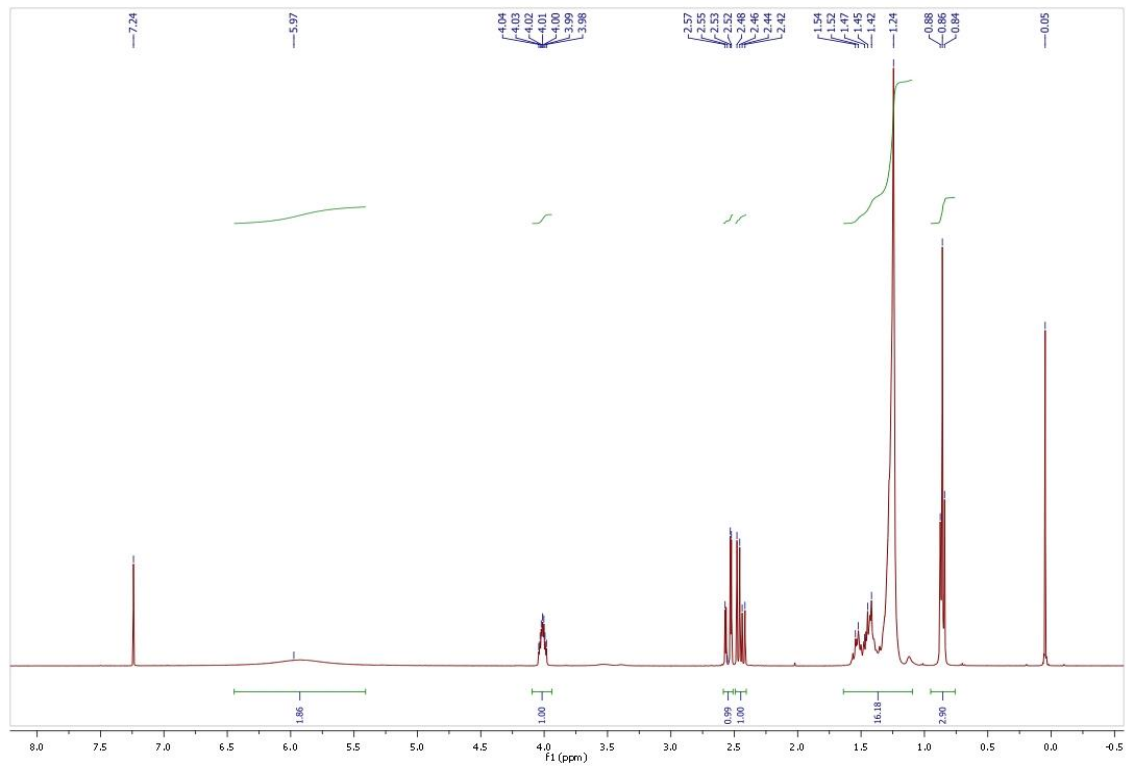
<sup>1</sup>H NMR of (*R*)-3-hydroxyundecanoic acid:



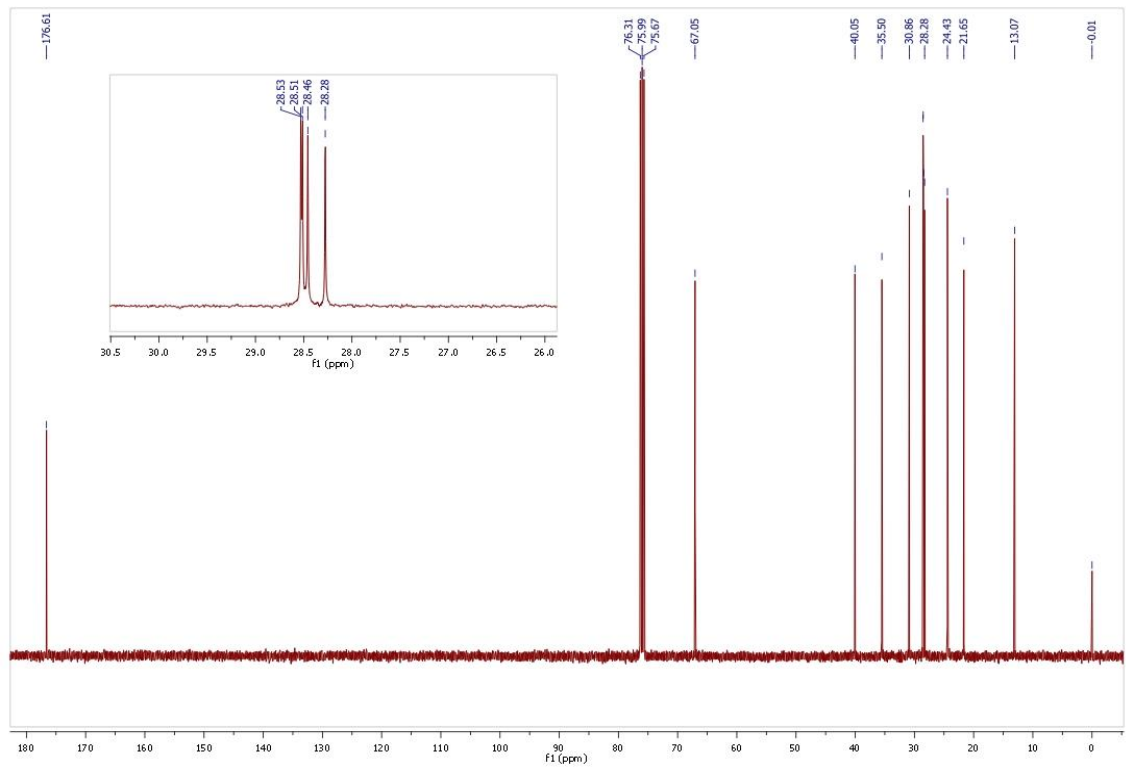
<sup>13</sup>C NMR of (*R*)-3-hydroxyundecanoic acid:



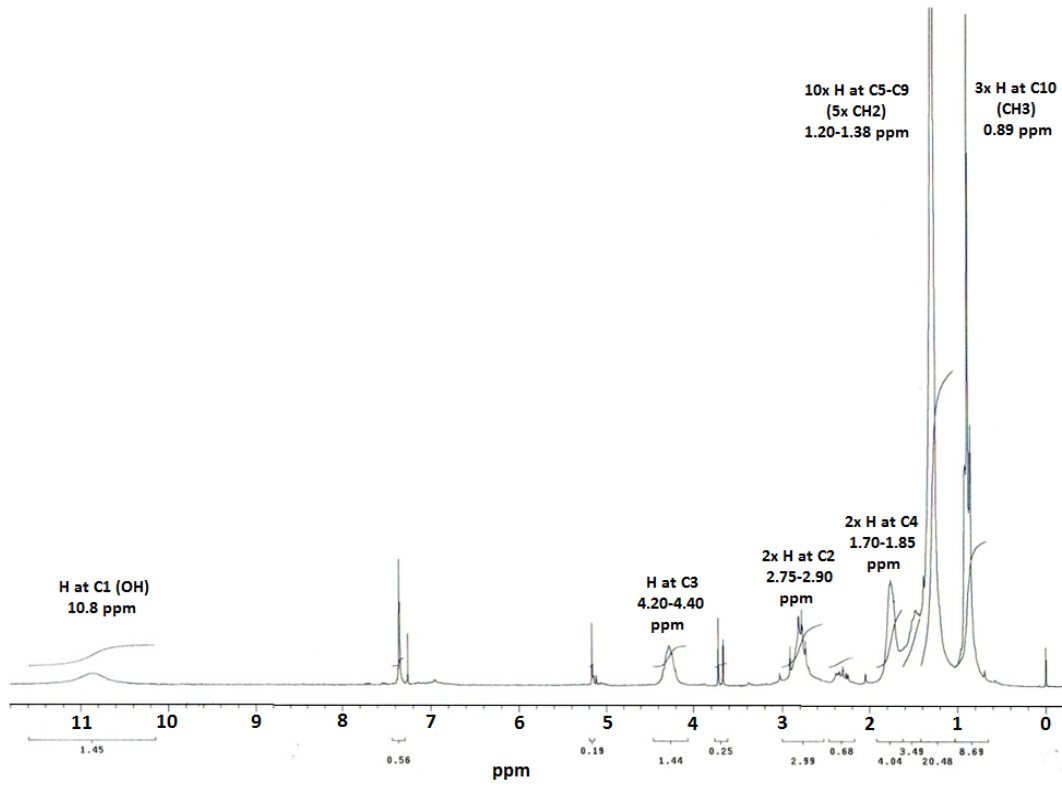
<sup>1</sup>H NMR of (*R*)-3-hydroxydodecanoic acid:



<sup>13</sup>C NMR of (*R*)-3-hydroxydodecanoic acid:



# <sup>1</sup>H NMR of 3-Chlorodecanoic acid



# <sup>13</sup>C NMR of 3-Chlorodecanoic acid

